

**WHAT WE CLAIM IS:**

1. A motor driven machine, the machine including a machine spindle and a switch reluctance motor having a motor spindle, the construction being such that the longitudinal axis of the motor spindle and the longitudinal axis of the machine spindle lie on substantially the same axis.
2. A motor driven machine as claimed in claim 1, wherein the machine is a lathe and the lathe includes a bed and a headstock, the longitudinal axis of the motor spindle and the longitudinal axis of the head stock spindle lying on substantially the same axis.
3. A motor driven machine as claimed in claim 2, wherein the head stock spindle and the motor spindle comprise a single spindle.
4. A motor driven machine substantially as herein described with reference to the accompanying drawings.

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